

**2021-2022 Four-Year Plan for the
BS Math: Applied Modeling and Data Science Degree**

Freshman			Fall			Spring		
MATH 143	College Algebra	3	MATH 170	Calculus I	4	MATH 144	Analytic Trigonometry	1
Elective	Scientific Ways of Knowing Course	4	ENGL 102	Writing and Rhetoric II	3	Elective	Scientific Ways of Knowing Course	4
ENGL 101	Writing and Rhetoric I	3	Elective	Humanistic and Artistic Ways of Knowing Course	3			
Elective	Oral Communication Course	2						
Elective	American Diversity Course	3						
		Total Credits	15			Total Credits		15

Sophomore			Fall			Spring		
MATH 175	Calculus II	4	MATH 183	Intro to Data Science in Python	3	MATH 330	Linear Algebra	3
MATH 176	Discrete Mathematics	3	MATH 275	Calculus III	3	Elective	Social and Behavioral Ways of Knowing Course	3
Elective	Elective	3	Elective	Elective	3			
Elective	Social and Behavioral Ways of Knowing Course	3						
Elective	International Course	3						
		Total Credits	16			Total Credits		15

Junior			Fall			Spring		
MATH 451	Probability Theory	3	STAT 301 or MATH 452		3	Elective	Senior Experience Course	3
MATH Elective	Math Elective	3	MATH Elective	Math Elective	3	Elective	Humanistic and Artistic Ways of Knowing Course	3
MATH 310	Ordinary Differential Equations	3	Elective	Free Elective	3	Elective	Free Elective	3
Elective	Free Elective	3						
Elective	Free Elective	3						
		Total Credits	15			Total Credits		15

Senior			Fall			Spring		
MATH Elective	Math Elective	3	MATH Elective	Math Elective	3	MATH 428 or 432	Math 428 or Math 432	3
MATH 483 or 438		3	Elective	Modeling Elective	3	Elective	Modeling Elective	3
Elective	Free Elective	3	Elective	Free Elective	3	Elective	Free Elective	3
Elective	Free Elective	3	Elective	Free Elective	3			
		Total Credits	15			Total Credits		15